

Method Path : Z:\voasrv\HPCHEM1\MSVOA_U\Method\
 Method File : 524U111224DW.M
 Title : METHOD 524.2 VOLATILES DRINKING WATER
 Last Update : Wed Nov 13 05:00:10 2024
 Response Via : Initial Calibration

Calibration Files

0.5 =VU061595.D 1 =VU061596.D 2 =VU061597.D 5 =VU061598.D 10 =VU061599.D 15 =VU061600.

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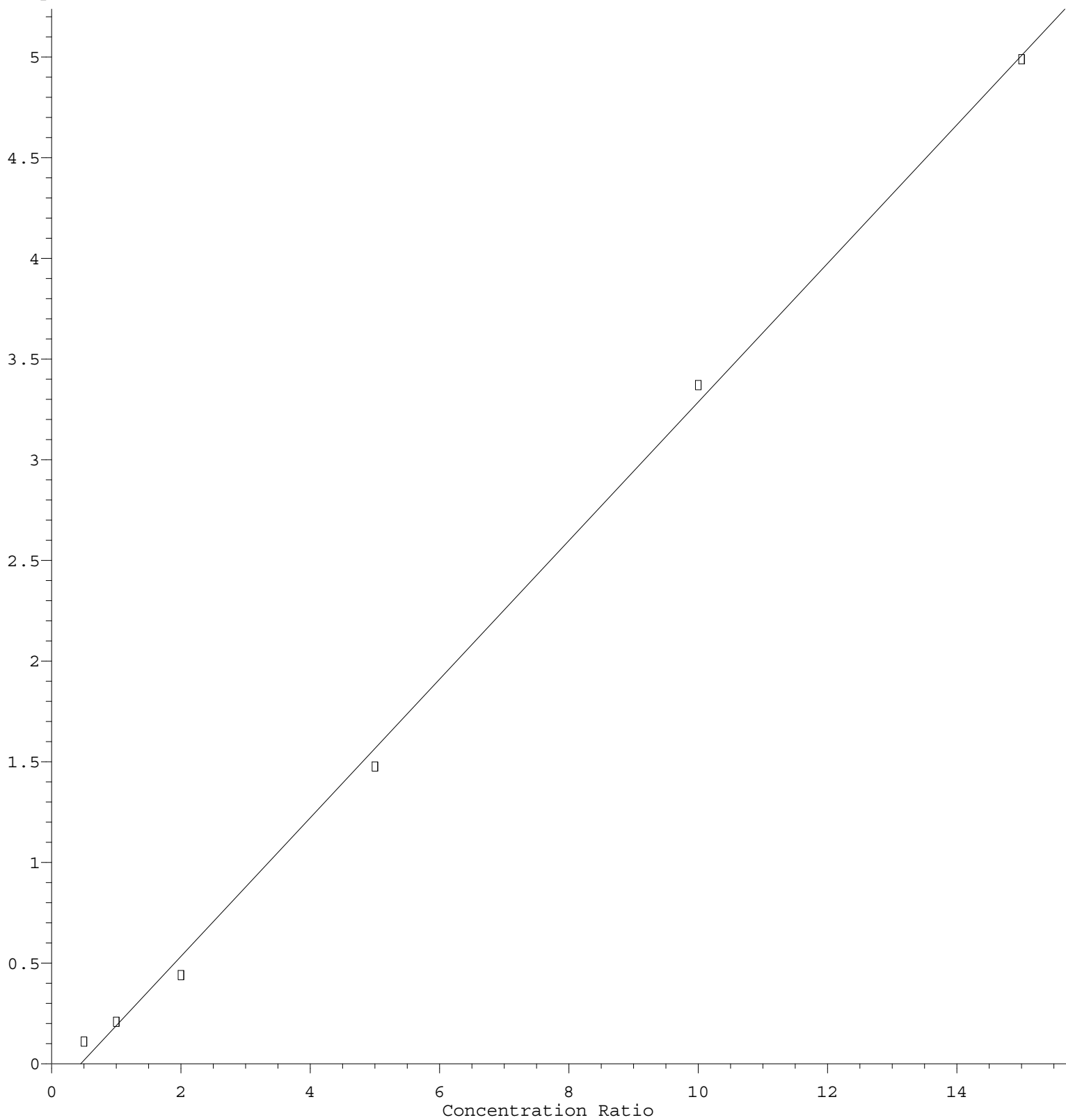
Compound		0.5	1	2	5	10	15	Avg	%RSD
-----ISTD-----									
1) i	Fluorobenzene								
2) T	Dichlorodifluo...	0.262	0.239	0.236	0.280	0.279	0.247	0.257	7.56
3) t	Chloromethane	0.255	0.231	0.237	0.254	0.264	0.234	0.246	5.50
4) Rt	Vinyl Chloride	0.276	0.254	0.263	0.294	0.301	0.272	0.277	6.46
5) T	Bromomethane	0.186	0.160	0.159	0.174	0.189	0.179	0.175	7.24
6) T	Chloroethane	0.287	0.208	0.187	0.228	0.226	0.206	0.224	15.33
7) T	Trichlorofluor...	0.401	0.365	0.369	0.424	0.435	0.382	0.396	7.37
8)	1,1,2-Trichlor...	0.207	0.197	0.203	0.227	0.232	0.205	0.212	6.62
9) Rt	1,1-Dichloroet...	0.216	0.209	0.201	0.241	0.244	0.221	0.222	7.85
10) t	Iodomethane		0.132	0.164	0.227	0.270	0.268	0.212	29.18
11) t	Allyl Chloride	0.247	0.228	0.235	0.274	0.292	0.266	0.257	9.61
12) t	Acrylonitrile	0.038	0.037	0.042	0.049	0.052	0.046	0.044	13.27
13) T	Acetone	0.080	0.063	0.053	0.062	0.059	0.050	0.061	16.89
14) T	Carbon Disulfide	0.720	0.669	0.656	0.754	0.793	0.712	0.717	7.13
15) RT	Methylene Chlo...	0.266	0.255	0.249	0.283	0.291	0.265	0.268	6.02
16) RT	trans-1,2-Dich...	0.246	0.238	0.236	0.273	0.291	0.263	0.258	8.45
17) t	1,1-Dichloroet...	0.440	0.432	0.427	0.489	0.510	0.461	0.460	7.24
18) T	2-Butanone	0.069	0.069	0.067	0.076	0.076	0.069	0.071	5.54
19)	Cyclohexane	0.355	0.333	0.331	0.412	0.426	0.381	0.373	10.84
20)	Methylcyclohexane	0.385	0.352	0.376	0.464	0.492	0.442	0.418	13.28
21) T	2,2-Dichloropr...	0.377	0.332	0.335	0.391	0.412	0.372	0.370	8.52
22) RT	cis-1,2-Dichlo...	0.272	0.241	0.262	0.302	0.320	0.292	0.281	10.16
23) t	Diethyl Ether	0.159	0.156	0.156	0.174	0.182	0.165	0.165	6.37
24) t	tert-Butyl Alc...		0.015	0.014	0.019	0.019	0.017	0.017	13.26
25) t	Methyl tert-Bu...	0.499	0.486	0.501	0.583	0.620	0.576	0.544	10.25
26) t	Bromochloromet...	0.116	0.113	0.112	0.135	0.140	0.128	0.124	9.73
27) t	Chloroform	0.469	0.450	0.454	0.518	0.541	0.495	0.488	7.51
28) RT	1,1,1-Trichlor...	0.365	0.369	0.373	0.438	0.460	0.413	0.403	9.97
29) T	1,1-Dichloropr...	0.346	0.319	0.334	0.386	0.414	0.373	0.362	9.79
30) RT	Carbon Tetrach...	0.312	0.303	0.317	0.378	0.398	0.363	0.345	11.53
31) t	Isopropyl Ether	0.570	0.545	0.559	0.648	0.699	0.651	0.612	10.22
32)	Ethyl-t-butyl ...	0.543	0.512	0.521	0.627	0.677	0.630	0.585	11.68
33)	Tert-Amyl meth...	0.467	0.444	0.485	0.576	0.621	0.579	0.529	13.68
34) t	Propionitrile	0.014	0.015	0.017	0.019	0.020	0.018	0.017	12.11
35) RT	Benzene	0.981	0.999	1.005	1.160	1.224	1.107	1.079	9.25
36) RT	1,2-Dichloroet...	0.289	0.277	0.275	0.323	0.333	0.301	0.300	8.01
37) RT	Trichloroethene	0.258	0.273	0.262	0.309	0.322	0.290	0.286	9.08
38) Rt	1,2-Dichloropr...	0.264	0.238	0.247	0.289	0.307	0.280	0.271	9.59
39) t	Methacrylonitrile	0.044	0.051	0.055	0.067	0.073	0.066	0.059	18.69
40) t	Methyl acrylate	0.096	0.098	0.112	0.106	0.115	0.128	0.109	10.82
41) t	Tetrahydrofuran	0.031	0.030	0.030	0.038	0.038	0.034	0.034	11.15
42) t	1-Chlorobutane	0.394	0.386	0.430	0.498	0.532	0.473	0.452	12.96
43) T	Dibromomethane	0.135	0.132	0.132	0.153	0.162	0.148	0.144	8.87
44) T	Bromodichlorom...	0.298	0.281	0.298	0.350	0.371	0.347	0.324	11.25
45) T	4-Methyl-2-Pen...	0.130	0.116	0.119	0.144	0.151	0.141	0.133	10.51
46) t	t-1,4-Dichloro...	0.066	0.069	0.074	0.081	0.082	0.067	0.073	9.38
47) t	Methyl methacr...	0.091	0.091	0.104	0.130	0.138	0.130	0.114	18.46
48) t	Ethyl methacry...	0.192	0.186	0.203	0.257	0.282	0.269	0.232	18.37
49) Rt	Toluene	0.594	0.588	0.593	0.716	0.766	0.698	0.659	11.75
50) T	t-1,3-Dichloro...	0.240	0.244	0.252	0.322	0.349	0.332	0.290	17.18
51) T	cis-1,3-Dichlo...	0.343	0.316	0.329	0.396	0.439	0.408	0.372	13.25
52) RT	1,1,2-Trichlor...	0.191	0.175	0.181	0.210	0.222	0.201	0.197	9.03
53) t	1,3-Dichloropr...	0.306	0.306	0.315	0.364	0.378	0.346	0.336	9.34
54) t	2-Hexanone	0.136	0.099	0.099	0.120	0.120	0.109	0.114	12.66
55) t	Dibromochlorom...	0.175	0.184	0.185	0.232	0.257	0.246	0.213	16.87
56) T	1,2-Dibromoethane	0.168	0.164	0.173	0.201	0.210	0.195	0.185	10.36

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57) S	4-Bromofluorob...	0.354	0.330	0.325	0.357	0.362	0.354	0.347	4.48	
58) RT	Tetrachloroethene	0.245	0.238	0.242	0.277	0.285	0.256	0.257	7.60	
59) Rt	Chlorobenzene	0.656	0.642	0.668	0.785	0.844	0.773	0.728	11.46	
60) T	1,1,1,2-Tetrac...	0.208	0.208	0.216	0.263	0.283	0.264	0.240	13.89	
61) t	Pentachloroethane	0.153	0.145	0.157	0.203	0.223	0.203	0.181	18.17	
62) t	Hexachloroethane	0.122	0.122	0.138	0.181	0.211	0.195	0.162	24.06	
63) Rt	Ethyl Benzene	1.084	1.042	1.091	1.352	1.454	1.331	1.226	14.19	
64) RT	m/p-Xylenes	0.395	0.384	0.426	0.527	0.578	0.522	0.472	17.08	
65) RT	o-Xylene	0.412	0.381	0.401	0.509	0.552	0.506	0.460	15.36	
66) RT	Styrene	0.543	0.563	0.610	0.815	0.901	0.823	0.709	21.82	
67) t	Bromoform	0.089	0.089	0.095	0.120	0.137	0.133	0.110	20.21	
68) S	1,2-Dichlorobe...	0.322	0.317	0.347	0.355	0.380	0.353	0.346	6.75	
69) T	Isopropylbenzene	0.920	0.896	0.948	1.196	1.312	1.188	1.077	16.39	
70) T	1,1,2,2-Tetrac...	0.226	0.212	0.223	0.264	0.275	0.254	0.242	10.54	
71) T	1,2,3-Trichlor...	0.183	0.183	0.179	0.202	0.218	0.205	0.195	8.07	
72) t	Bromobenzene	0.246	0.255	0.254	0.307	0.337	0.313	0.285	13.41	
73) t	n-propylbenzene	0.266	0.250	0.280	0.358	0.395	0.361	0.318	18.97	
74) t	2-Chlorotoluene	0.228	0.244	0.253	0.321	0.345	0.313	0.284	17.01	
75) t	1,3,5-Trimethy...	0.793	0.771	0.858	1.110	1.221	1.096	0.975	19.55	
76) t	4-Chlorotoluene	0.230	0.233	0.263	0.333	0.366	0.328	0.292	19.76	
77) t	tert-Butylbenzene	0.766	0.772	0.846	1.067	1.188	1.070	0.952	18.85	
78) t	1,2,4-Trimethy...	0.776	0.781	0.847	1.116	1.240	1.111	0.979	20.57	
79) t	sec-Butylbenzene	1.034	1.025	1.125	1.422	1.564	1.398	1.261	18.15	
80)	Nitrobenzene	0.002	0.003	0.004	0.005	0.005	0.005	0.003	38.76	
81) t	p-Isopropyltol...	0.792	0.783	0.888	1.166	1.313	1.172	1.019	22.20	
82) t	1,3-Dichlorobe...	0.483	0.473	0.491	0.597	0.668	0.601	0.552	14.67	
83) Rt	1,4-Dichlorobe...	0.488	0.464	0.488	0.598	0.674	0.604	0.553	15.26	
84) t	n-Butylbenzene	0.728	0.733	0.820	1.074	1.206	1.080	0.940	21.83	
85) Rt	1,2-Dichlorobe...	0.455	0.439	0.468	0.573	0.621	0.570	0.521	14.66	
86) t	1,2-Dibromo-3-...	0.026	0.024	0.026	0.035	0.039	0.037	0.031	21.86	
87) Rt	1,2,4-Trichlor...	0.235	0.217	0.249	0.319	0.376	0.361	0.293	23.21	
88) t	Hexachlorobuta...	0.155	0.148	0.159	0.188	0.204	0.190	0.174	13.20	
89) t	Naphthalene	0.369	0.323	0.366	0.516	0.623	0.621	0.469	28.78	
90) t	1,2,3-Trichlor...	0.220	0.209	0.220	0.295	0.337	0.333	0.269	22.14	

(#) = Out of Range

1,2,3-Trichlorobenzene

Response Ratio



$$\text{Response} = 3.443\text{e-}001 * \text{Amt} - 1.563\text{e-}001$$

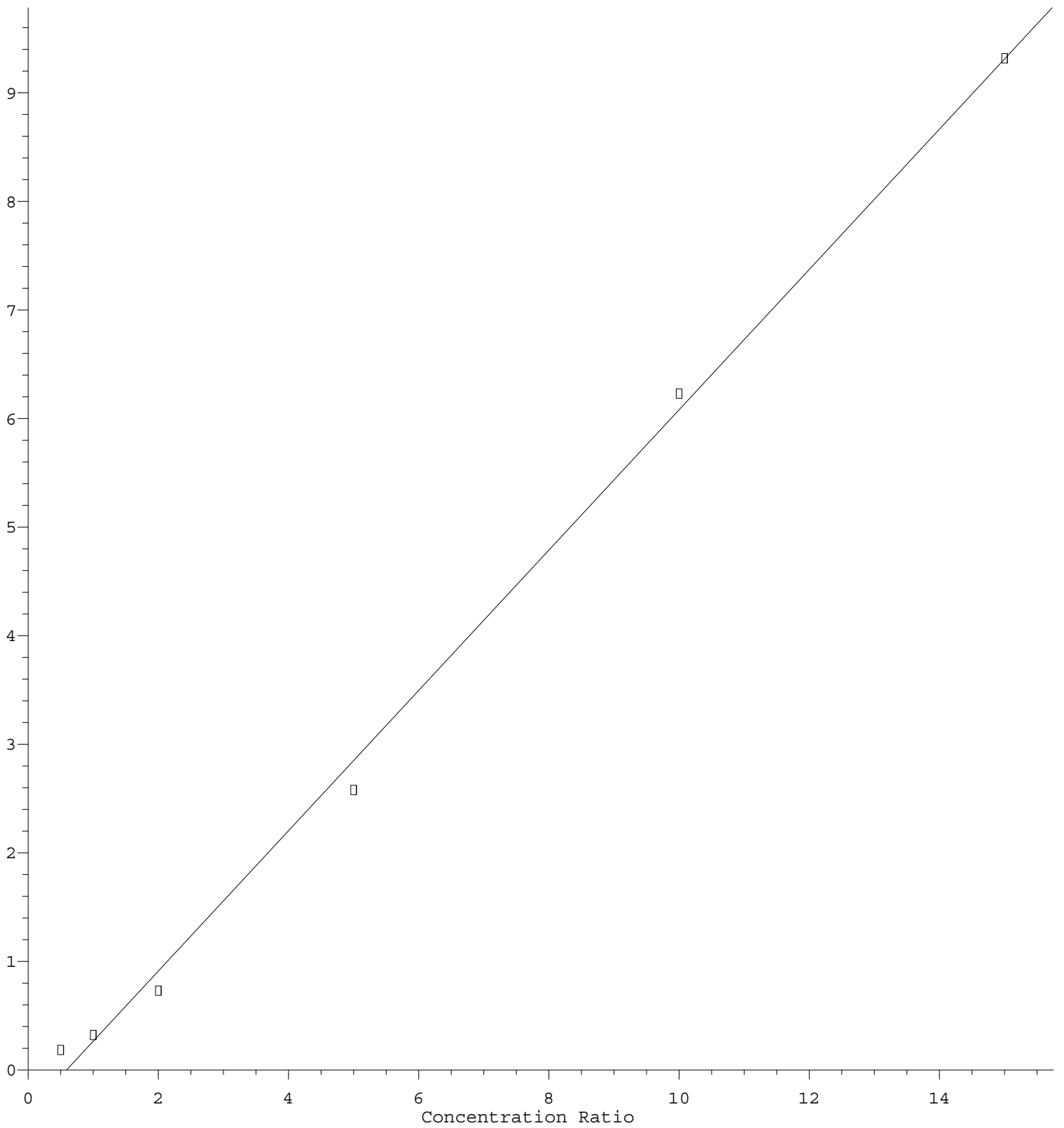
Coef of Det (r^2) = 0.998343 Curve Fit: Linear

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Naphthalene

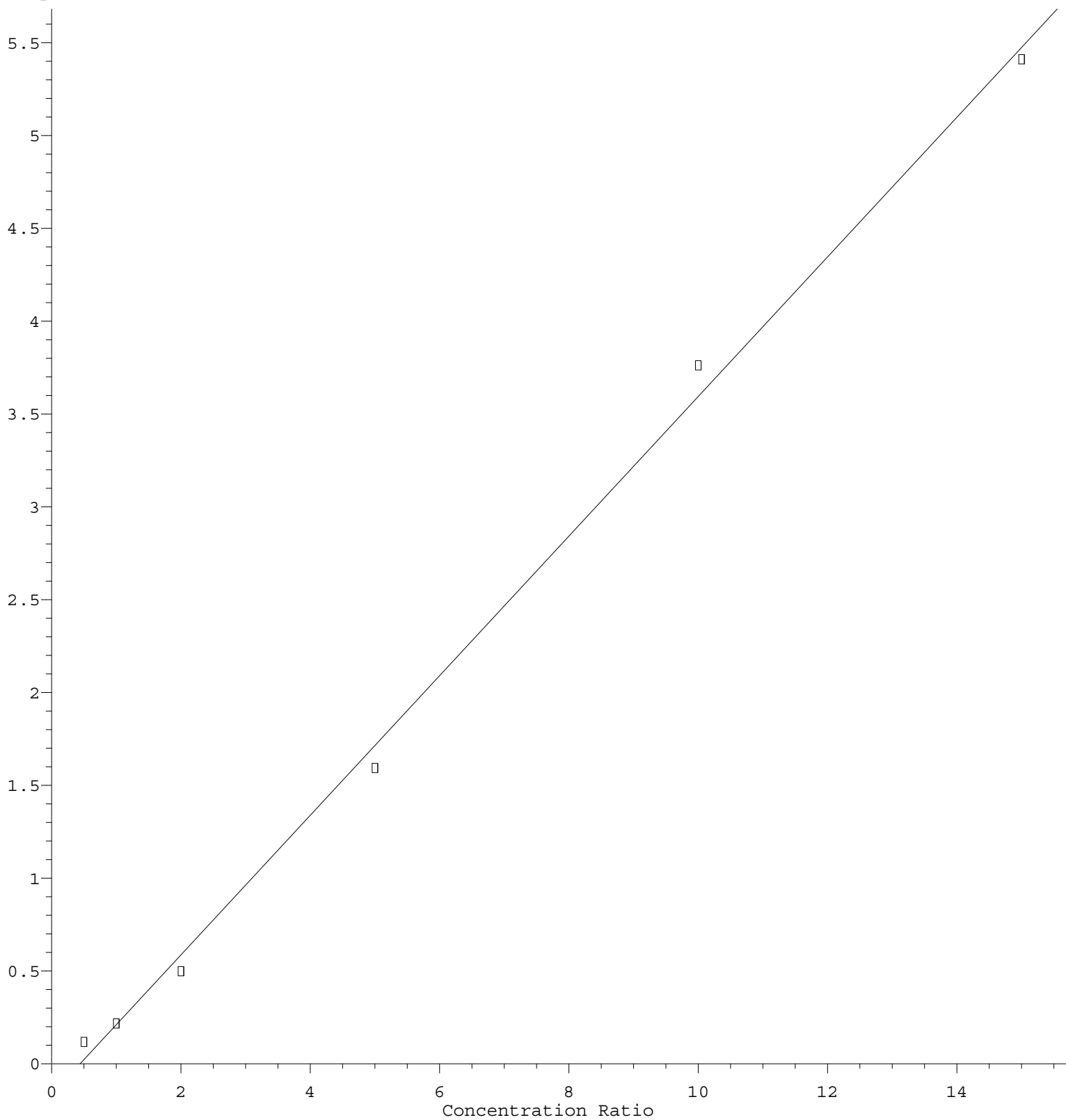
Response Ratio



Response = 6.463e-001 * Amt - 3.812e-001
 Coef of Det (r^2) = 0.997301 Curve Fit: Linear
 Method Name: Z:\voasrv\HPCHEM1\MSVOA U\Method\524U111224DW.M
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1,2,4-Trichlorobenzene

Response Ratio



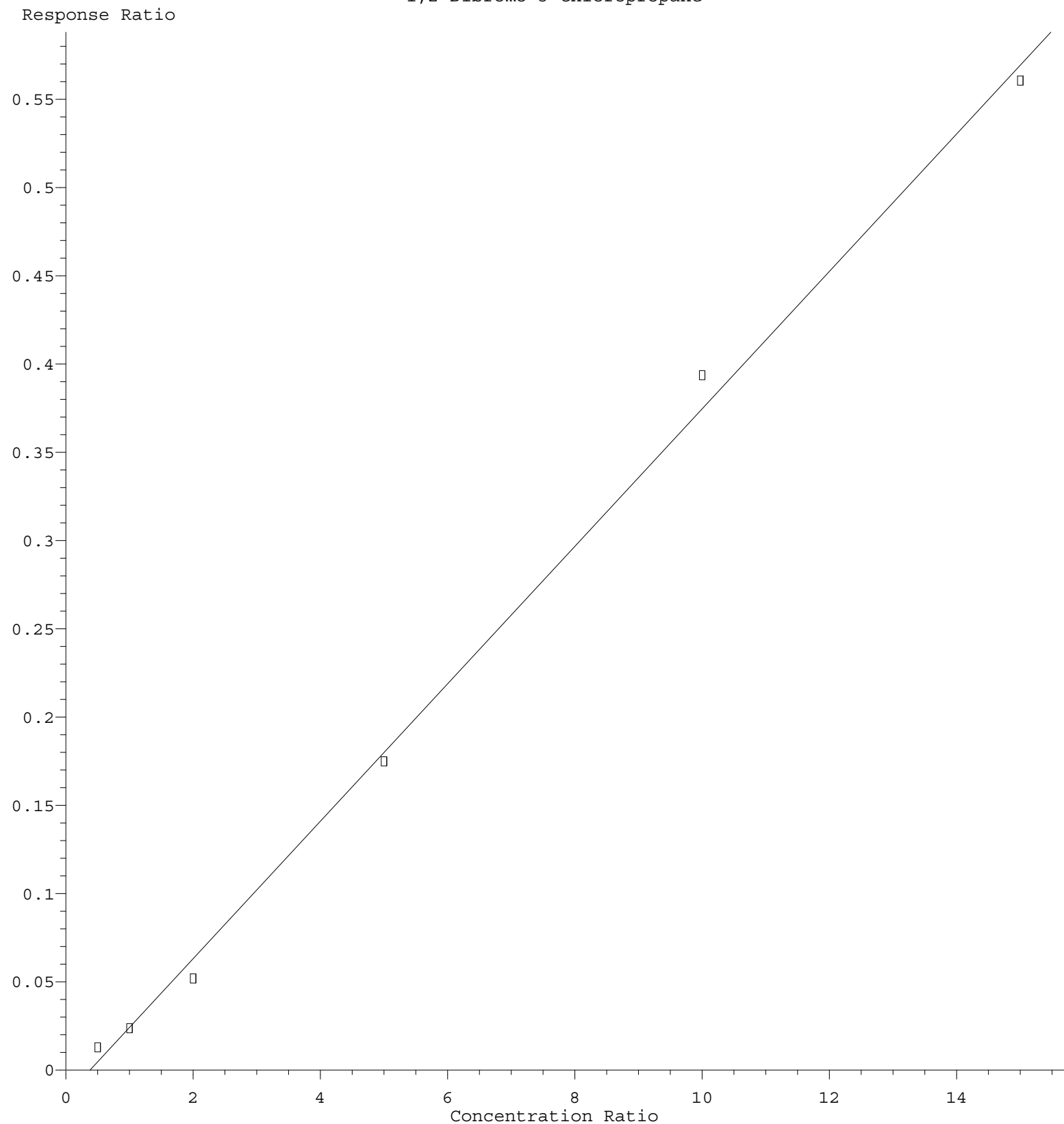
$$\text{Response} = 3.761\text{e-}001 * \text{Amt} - 1.664\text{e-}001$$

Coef of Det (r^2) = 0.997332 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA U\Method\524U111224DW.M

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1,2-Dibromo-3-Chloropropane



Response = $3.897e-002 * Amt - 1.465e-002$
 Coef of Det (r^2) = 0.997439 Curve Fit: Linear
 Method Name: Z:\voasrv\HPCHEM1\MSVOA U\Method\524U111224DW.M
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n-Butylbenzene

Response Ratio

17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0

0

2

4

6

8

10

12

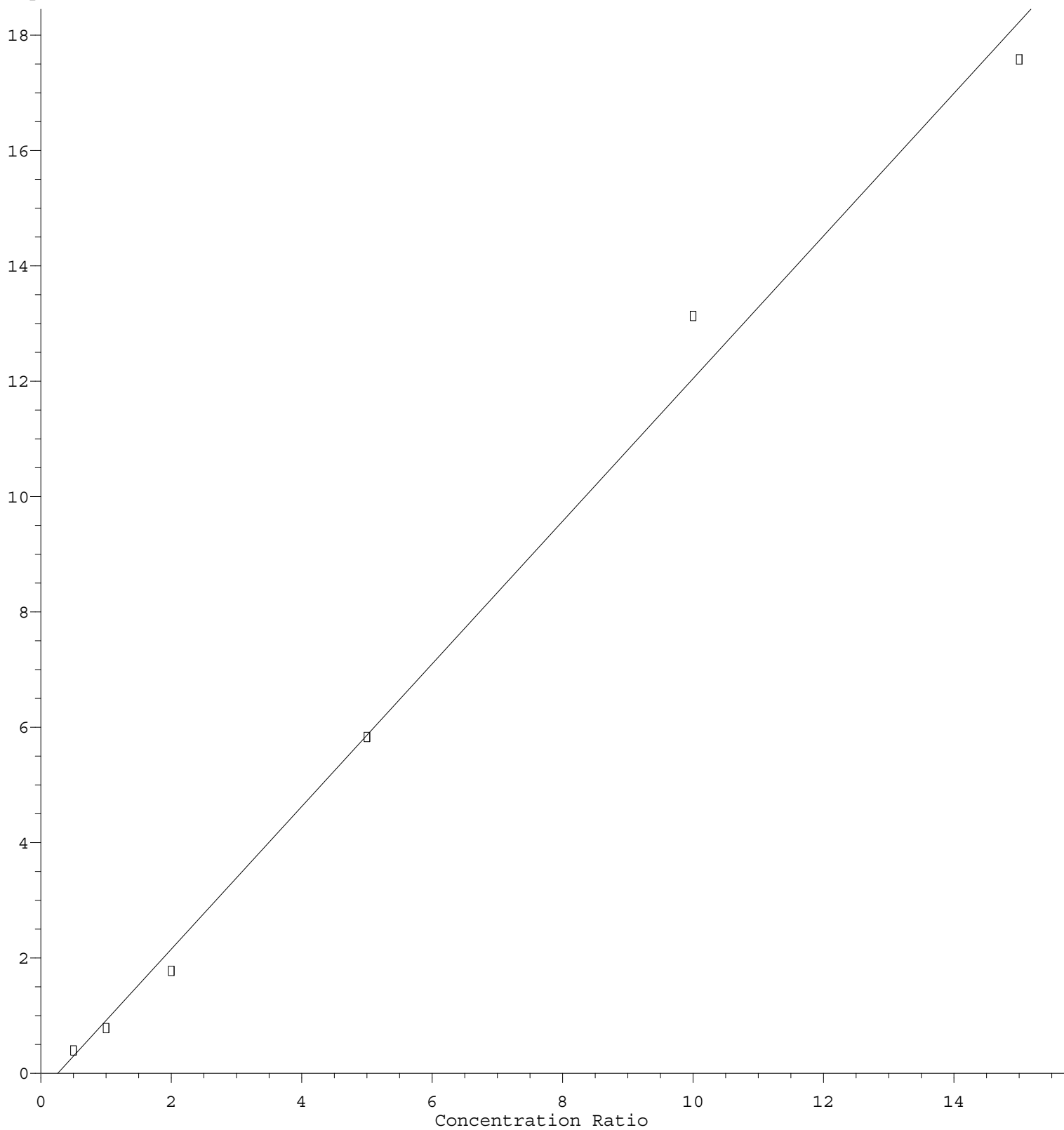
14

Concentration Ratio

Response = 1.139e+000 * Amt - 2.994e-001
Coef of Det (r^2) = 0.993553 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA U\Method\524U111224DW.M
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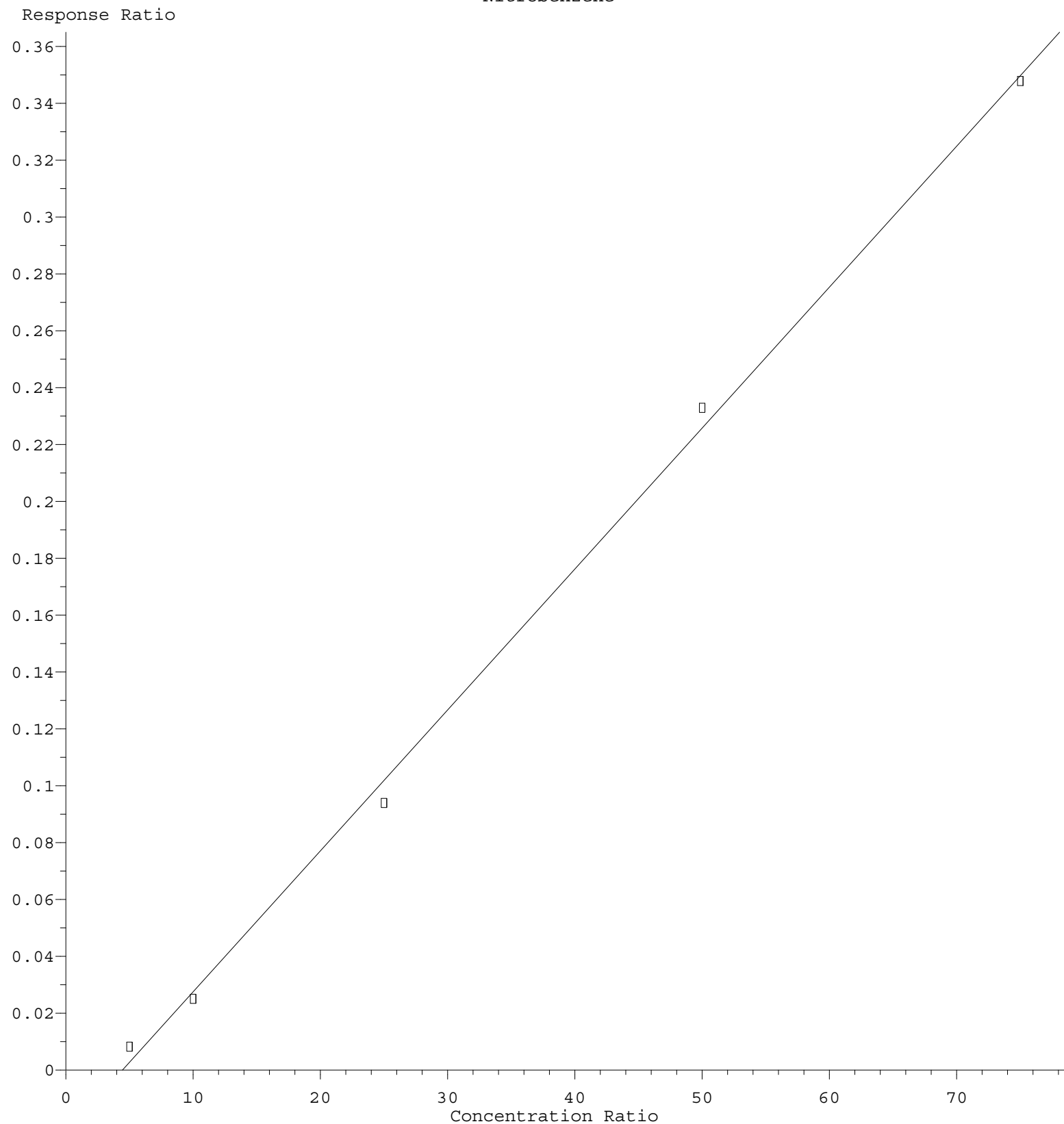
p-Isopropyltoluene

Response Ratio



Response = 1.238e+000 * Amt - 3.271e-001
Coef of Det (r^2) = 0.993179 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA U\Method\524U111224DW.M
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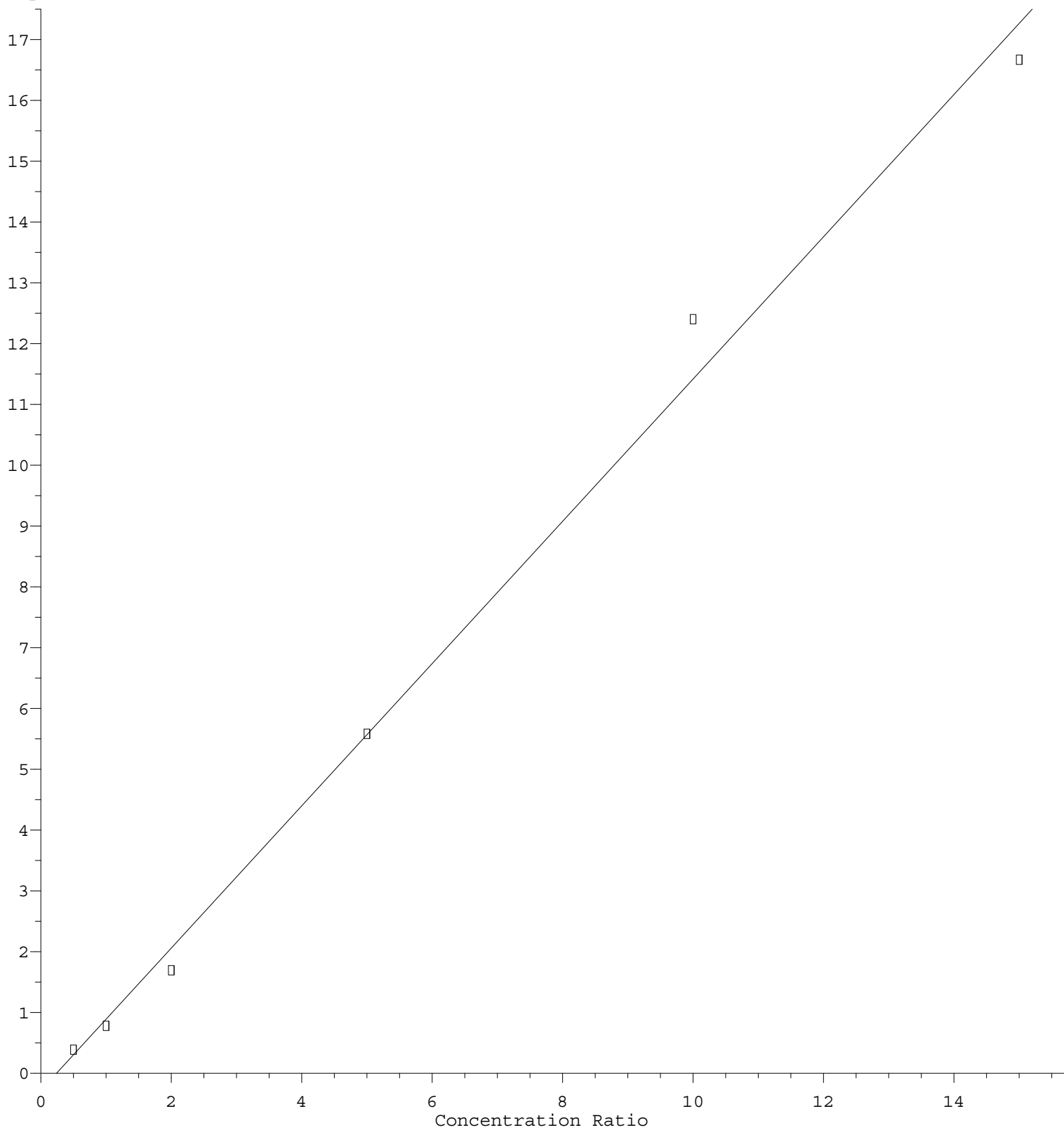
Nitrobenzene



Response = $4.960 \times 10^{-3} \times \text{Amt} - 2.206 \times 10^{-2}$
 Coef of Det (r^2) = 0.998188 Curve Fit: Linear
 Method Name: Z:\voasrv\HPCHEM1\MSVOA U\Method\524U111224DW.M
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1,2,4-Trimethylbenzene

Response Ratio



$$\text{Response} = 1.170\text{e}+000 * \text{Amt} - 2.818\text{e}-001$$

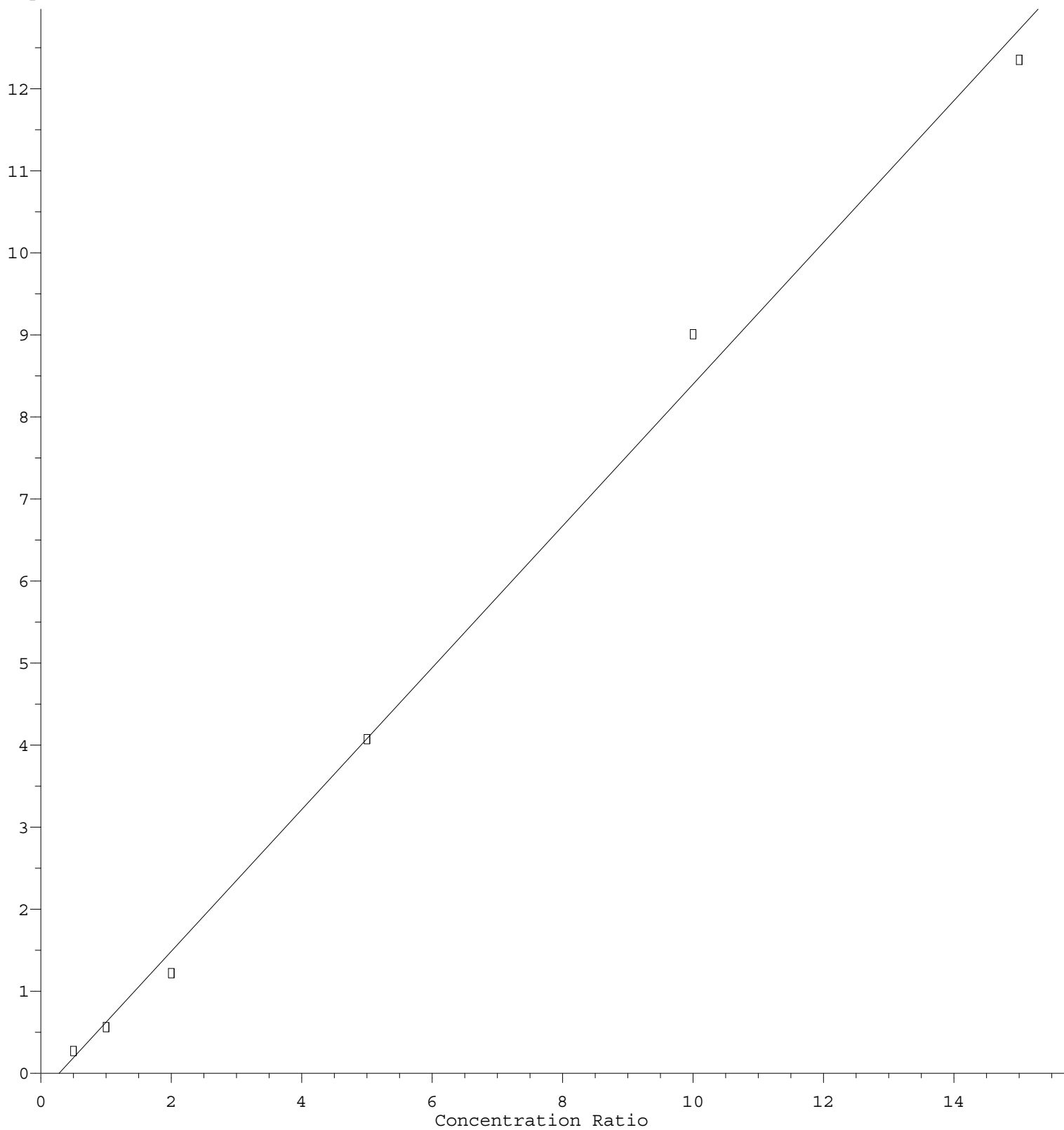
Coef of Det (r^2) = 0.993627 Curve Fit: Linear

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Styrene

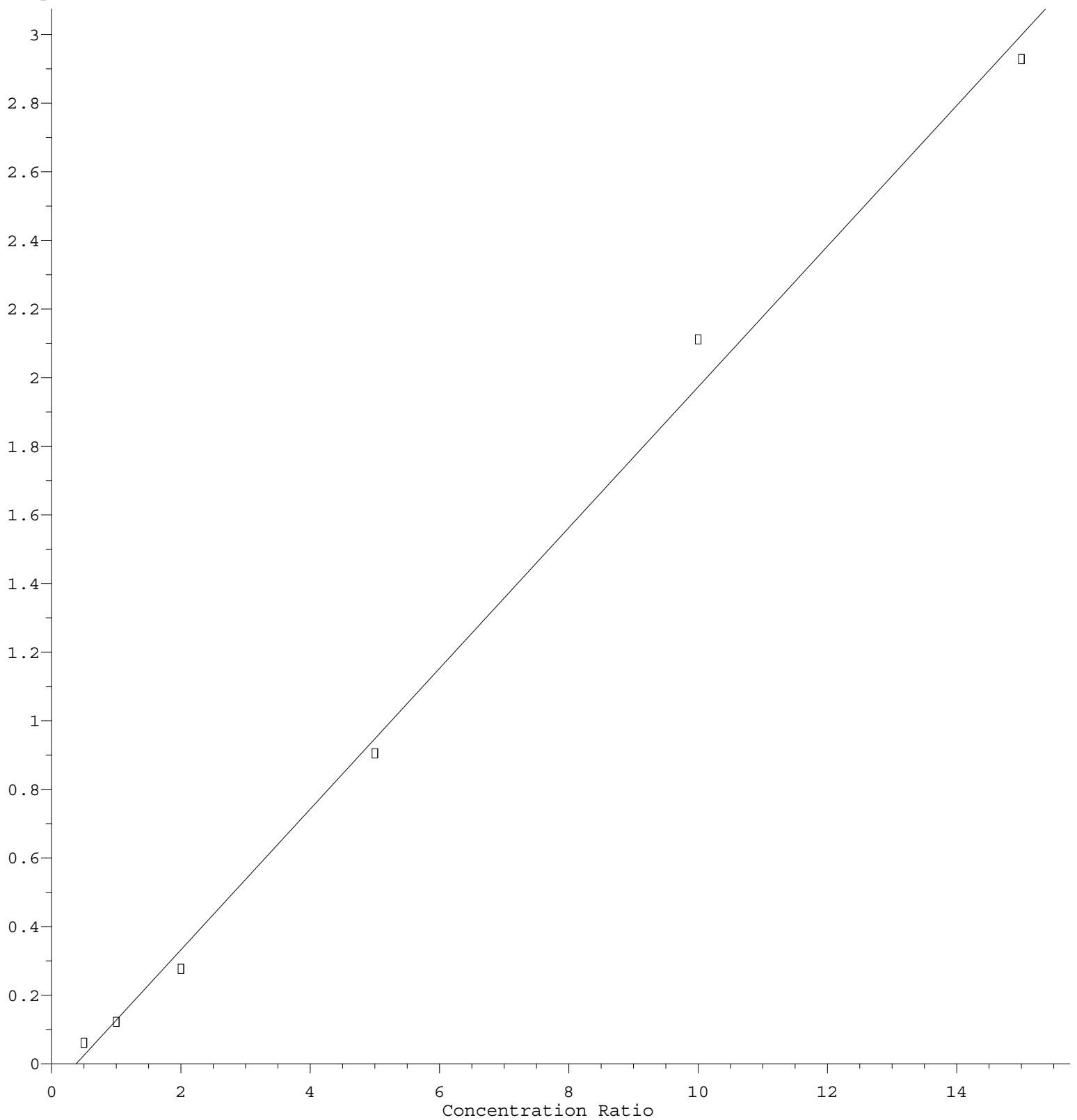
Response Ratio



Response = $8.644e-001 * Amt - 2.448e-001$
Coef of Det (r^2) = 0.995357 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA U\Method\524U111224DW.M
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Hexachloroethane

Response Ratio



$$\text{Response} = 2.052\text{e-}001 * \text{Amt} - 7.798\text{e-}002$$

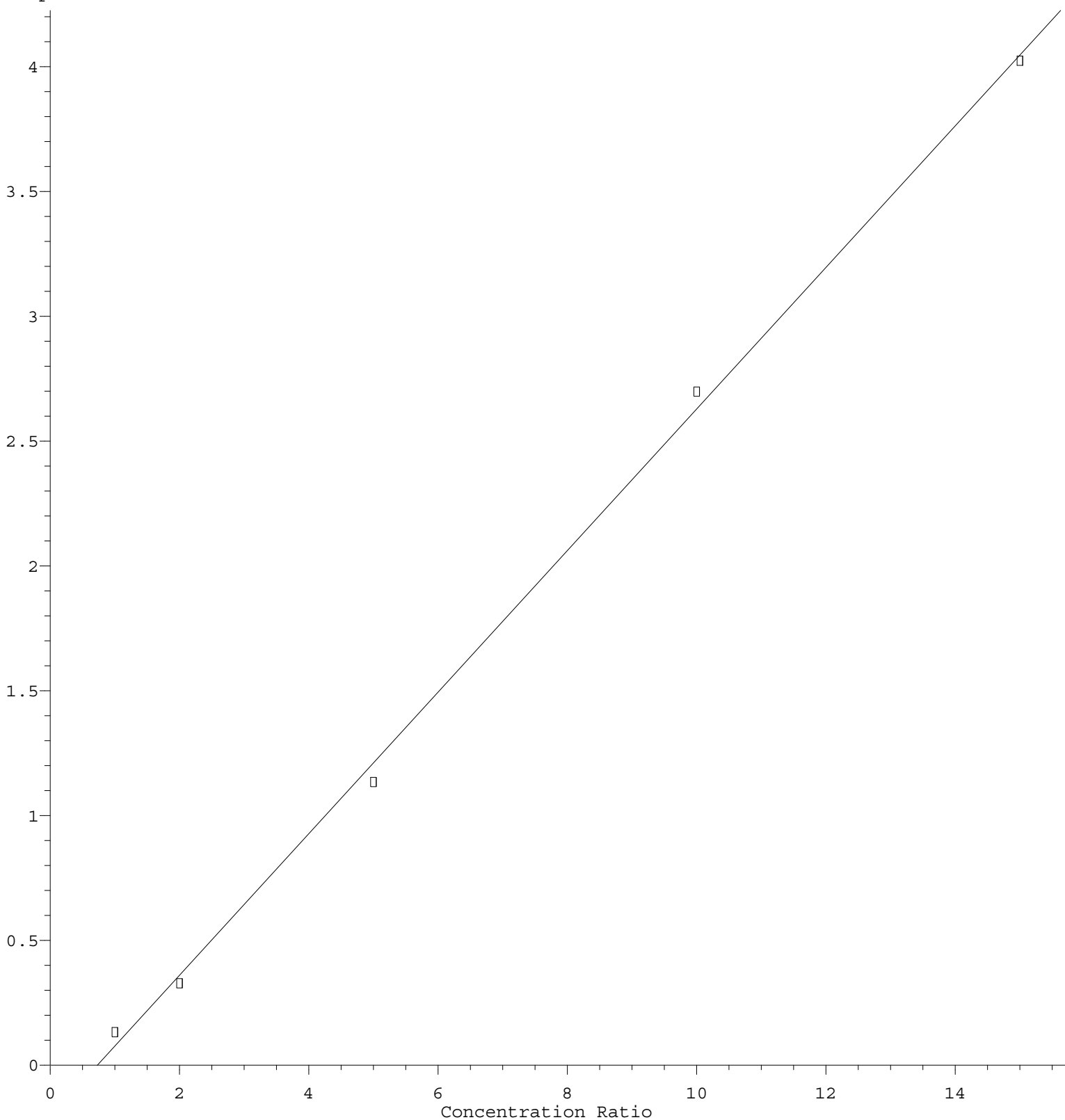
Coef of Det (r^2) = 0.995736 Curve Fit: Linear

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Iodomethane

Response Ratio



$$\text{Response} = 2.836\text{e-}001 * \text{Amt} - 2.082\text{e-}001$$

Coef of Det (r^2) = 0.998612 Curve Fit: Linear

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